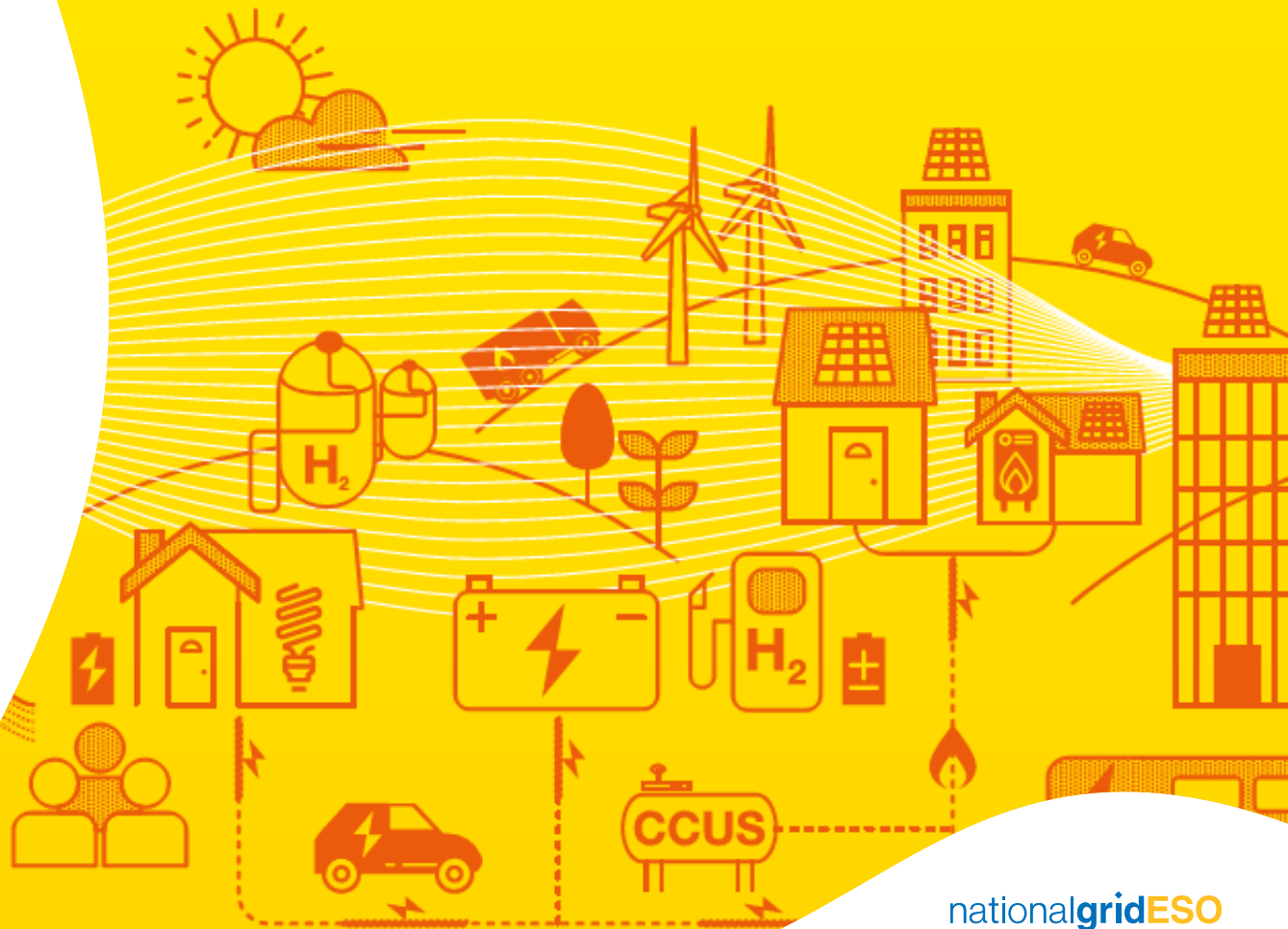


Future Energy Scenarios 2019

Heat

July 2019



Scenario framework for domestic heat

CONSUMER EVOLUTION

Low (13%)	<i>Insulation</i>
Medium (+15%)	<i>Appliance efficiency</i>
Low	<i>District heating</i>
Medium	<i>Heat Pumps, Hybrids</i>
None	<i>Hydrogen</i>

COMMUNITY RENEWABLES

High (26%)
High (+25%)
High
High
None

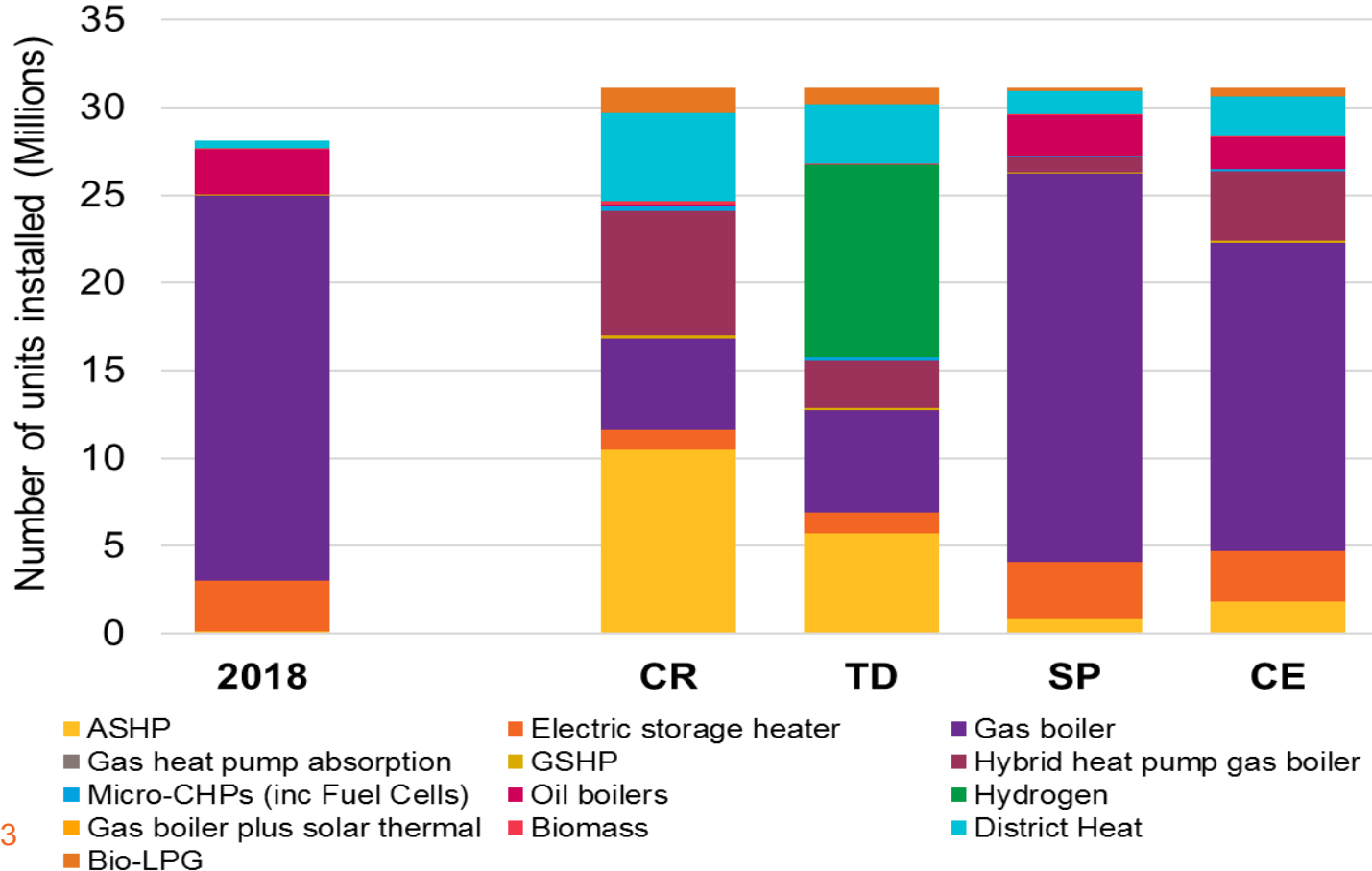
STEADY PROGRESSION

Low (9%)	<i>Insulation</i>
Low (+10%)	<i>Appliance efficiency</i>
Low	<i>District heating</i>
Low	<i>Heat Pumps, Hybrids</i>
Some blending	<i>Hydrogen</i>

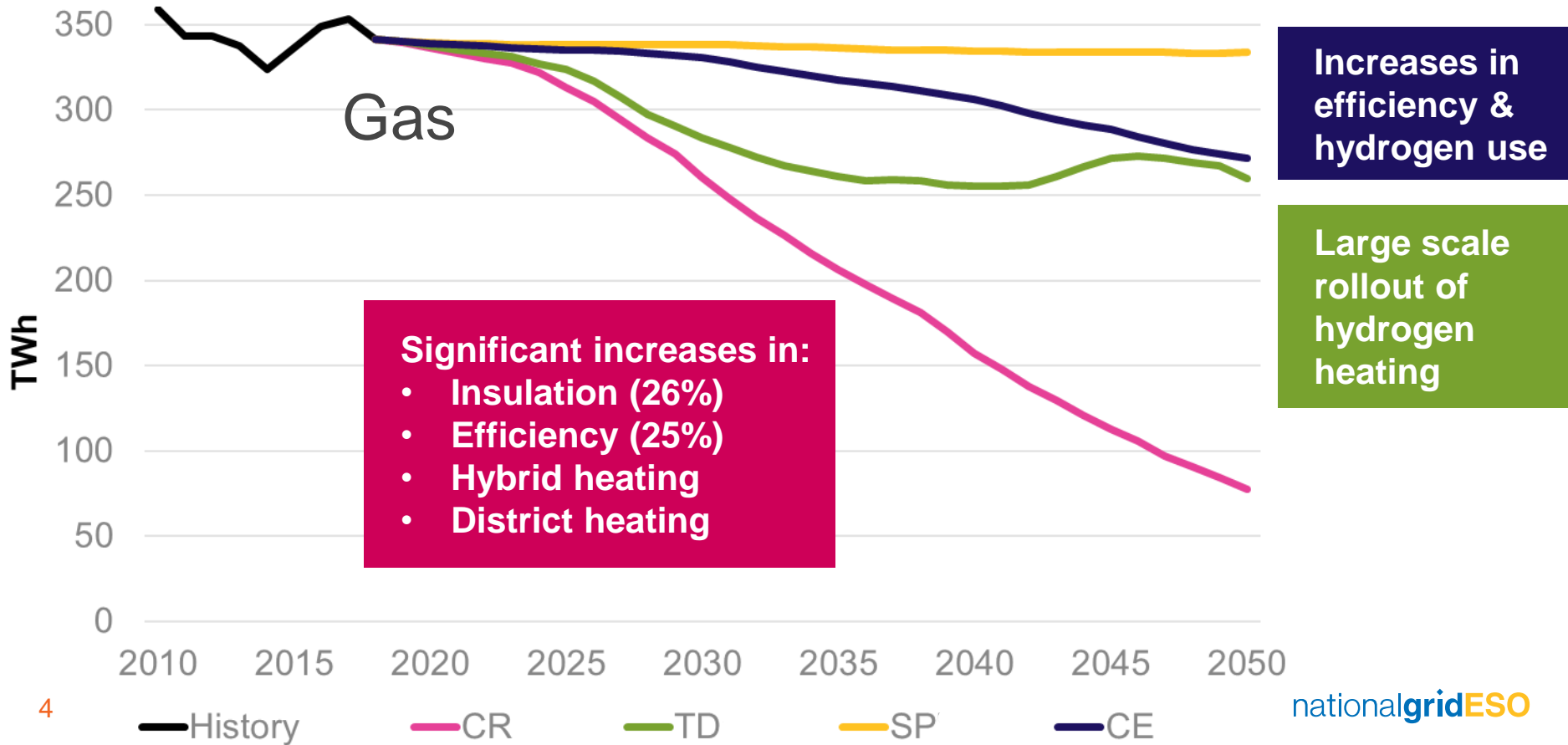
TWO DEGREES

Medium (20%)
High (+20%)
Medium
Medium-High
Roll-out distribution

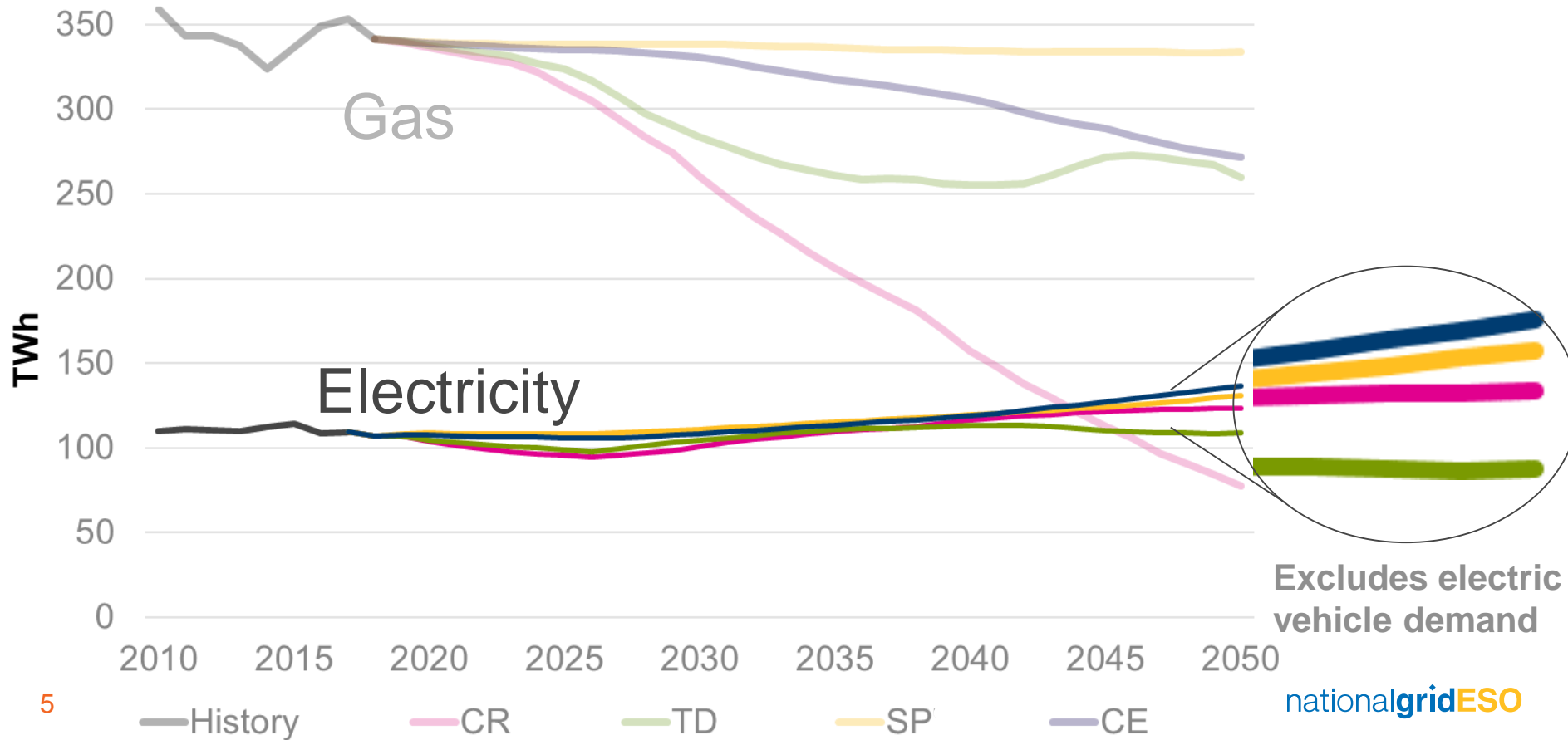
Low carbon heating technology adoption - 2050



Residential gas and electricity demand

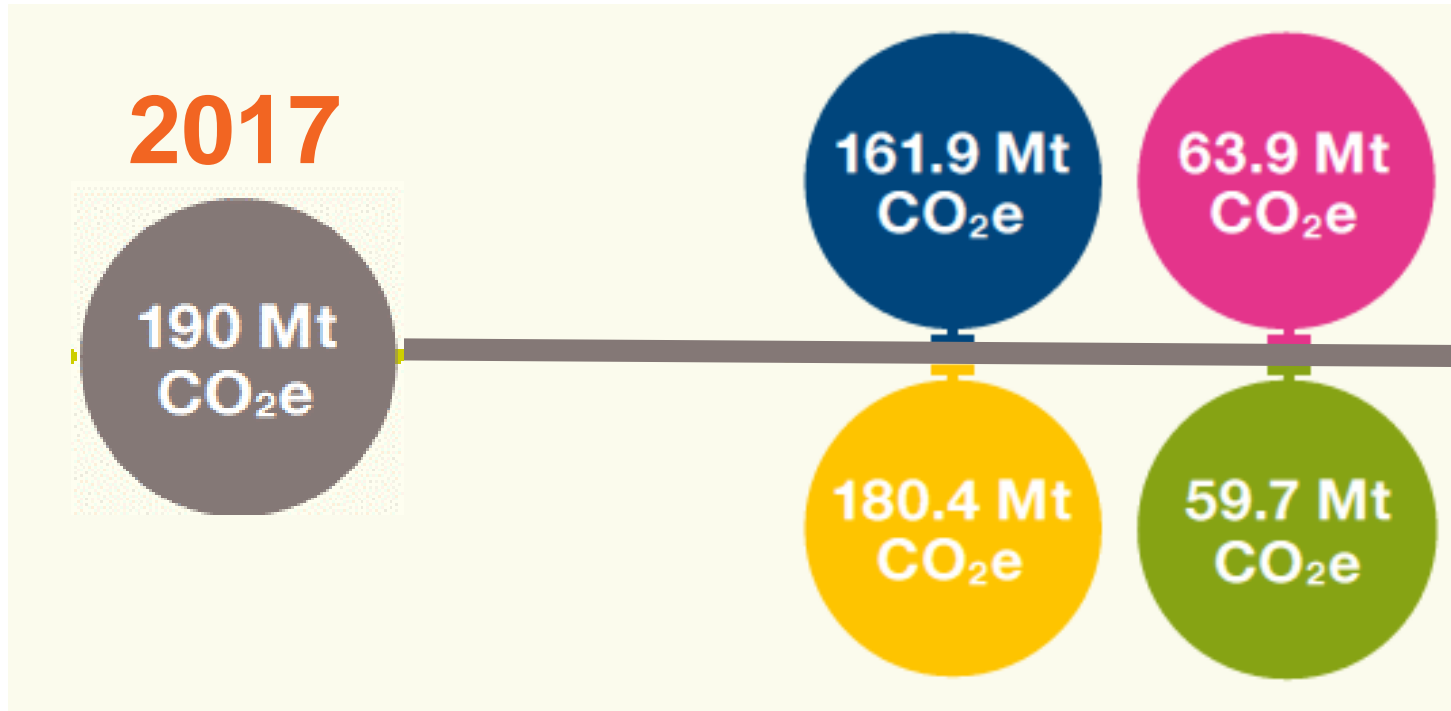


Residential gas and electricity demand



Carbon impact of heat

2050



Summary

A range of different technologies could be used to meet our targets.

Heat decarbonisation pathways are uncertain and vary by region.

No big changes in heat demand are expected over the next five years.

But a huge change is required in our 2050 compliant scenarios.

There are clear, urgent no regrets actions that can remove barriers to deploying solutions at scale

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